

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FE251546	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR2005/000133	International filing date (<i>day/month/year</i>) 14 JANUARY 2005 (14.01.2005)	(Earliest) Priority Date (<i>day/month/year</i>) 15 JANUARY 2004 (15.01.2004)	
Applicant UTStarcom Korea Limited et al			

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/000133

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04L 12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G06F, H04L, H04Q, H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for Inventions since 1975

Korean Utility Models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/26830 A1 (THOMSON CSF) 27 MAY 1999 see the whole documents	1 - 2
A	US 6,343,326 B2 (NEC USA, INC) 29 Jan 2002 see the whole documents	1 - 2
A	US 6,351,465 B1 (Lucent Technology.) 26 FEB 2002 see the whole documents	1 - 2
A	US 6,424,662 B1 (Hitachi, LTD) 23 JUL 2002 see the whole documents	1 - 2
A	US 2003/0081613 A1 (Masayuki Yamanaka) 1 MAY 2003 see the whole documents	1 - 2

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 FEBRUARY 2005 (22.02.2005)

Date of mailing of the international search report

23 FEBRUARY 2005 (23.02.2005)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2005/000133

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 99/26830 A1	27 MAY 1999	EP 1033013 B1	20 AUG 2003
	JP 2001-532920 T2		17 NOV 2001
	FR 2771240 B1		4 FEB 2000
US 6,343,326 B2	29 Jan 2002	WO 99/50602 A1	7 OCT 1999
	EP 00849970 A3		12 JUN 2002
	JP 10-19071		21 JUL 1998
	AU727424 B2		14 DEC 2002
US 6,351,465 B1	26 FEB 2002	US 6,009,097 A	28 DEC 1999
	JP 3338365 B2		28 OCT 2002
	EP 869695 A1		7 OCT 1998
US 6,424,662 B1	23 JUL 2002	JP 2840360 B2	24 DEC 1998
	US 6381571 B1		7 MAY 2002
US 2003/0081613 A1	1 MAY 2003	JP 2003-143189 A2	16 MAY 2003

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

YOON, Jee Hong

Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110-053
Republic of Korea

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **23 FEBRUARY 2005 (23.02.2005)**

Applicant's or agent's file reference

FE251546

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2005/000133

International filing date (day/month/year)

14 JANUARY 2005 (14.01.2005)

Priority date(day/month/year)

15 JANUARY 2004 (15.01.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04L 12/56

Applicant

UTStarcom Korea Limited et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SHIN, Sung Kil

Telephone No. 82-42-481-5688



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/000133

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/KR2005/000133

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 - 2	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1 - 2	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1 - 2	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1 : US 6,343,326 B2

D2 : US 6,351,465 B1

1. Novelty and Inventive Step

D1 discloses A system and method of transferring internet protocol packets using fast ATM cell transport.

D2 relates to A system using ATM switches as high performance Internet routers by standard ATM signaling to set up cut-through paths.

Although these two documents relate to the ATM router, None of these documents reveals the idea of switched router for transmitting IP packet data using SLA, ENLA and IFCA.

Moreover, It seems not obvious to derive the said idea from the said two documents

Therefore, novelty can be acknowledged for claim 1 – 2, also these claims involve an inventive steps.

2. Industrial Applicability

Claims 1 – 2 meet the criteria set out in PCT Article 33(4).